



October 30, 2009

Mr. Michael Forbes
City Planner
CITY OF BURBANK
275 East Olive Avenue
Burbank, California 91502

Bureau Veritas Project No. 25098-098191.01

Subject: Status Report of Vapor Extraction System Operation (VES)
Lockheed-Martin B-1 Site
April 21, 2009 through August 28, 2009

Dear Mr. Forbes:

Bureau Veritas North America, Inc. (Bureau Veritas) has prepared the following status report for the Vapor Extraction System (VES) operation at the Lockheed-Martin B-1 Site for the period of April 21, 2009 through August 28, 2009. The purpose of this report is to provide the analytical results of the effluent air sample and an independent calculation of the system's air emissions and its compliance with the permit conditions. The remaining sections of this report are as follows:

- Background
- Bureau Veritas Field Activities
- Results of Laboratory Analysis
- Health Risk Assessment Calculations
- Conclusions

BACKGROUND

Alton Geoscience conducted a "Phase I" and "Phase II" of VES effluent sampling and health risk assessment calculations for the Lockheed-Martin B-1 facility. Phase I consisted of twelve weekly health risk reports based on samples collected between September 2, 1997 and February 9, 1998. Phase II included twelve bi-weekly health risk assessment calculations based on samples collected between February 16, 1998 and September 9, 1998. Phase III consisted of monthly sampling between October and December 1998.

Phase IV of the VES effluent sampling consists of VES effluent sample acquisition, laboratory analyses, and health risk assessment calculations to be performed once per quarter for the remainder of the project. The first and second quarterly health risk

Bureau Veritas North America, Inc.

Health, Safety and Environmental Services

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assessment calculations were provided by Alton in reports dated January 18, 1999 and May 24, 1999, respectively.

Since March 2000, Bureau Veritas personnel have been collecting effluent samples of the unit at a frequency of two to four events per year. When the system operates continuously throughout a 12-month period, samples are collected on a quarterly basis. The frequency of sampling is determined by Earth Tech (an environmental consulting firm), which notifies Bureau Veritas personnel within a few days before they collect effluent samples so that Bureau Veritas can collect a sample simultaneously.

Earth Tech was rebound testing during the initial Bureau Veritas sampling event. In early 2000, Earth Tech re-started the system for continuous operation. In September 2002, they continued the rebound test efforts in which the system is down for extended periods of time then re-started for testing purposes (see table below). During these activities, a sample is collected by Bureau Veritas and a report is prepared.

Date Issued	Sampling Date
November 23, 1999	October 14, 1999 (rebound testing)
March 13, 2000	(Restart of system)
May 16, 2000	March 2000
July 12, 2000	June 2000
November 17, 2000	September 2000
February 22, 2001	January 2001
May 31, 2001	April 2001
August 21, 2001	August 5, 2001
November 12, 2001	October 19, 2001
March 29, 2002	January 28, 2002
June 6, 2002	April 29, 2002
August 23, 2002	July 26, 2002
January 8, 2003	October 30, 2002 (rebound testing)
March 4, 2003	February 3, 2003
January 7, 2004	December 9, 2003 (2 reports issued)
September 3, 2004	August 18, 2004
July 13, 2005	May 24, 2005
September 1, 2005	August 16, 2005
November 18, 2005	October 17, 2005
April 25, 2006	April 3, 2006
July 15, 2006	June 27, 2006
April 9, 2007	March 9, 2007
August 10, 2007	June 6, 2007
November 30, 2007	October 16, 2007
June 6, 2008	April 16, 2008
September 30, 2008	July 29, 2008
December 31, 2008	October 16, 2008
March 11, 2009	January 28, 2009
June 8, 2009	April, 20 2009
October 14, 2009*	August 28, 2009



* Subject report

BUREAU VERITAS FIELD ACTIVITIES

On August 28, 2009, personnel from Bureau Veritas met with Earth Tech personnel to conduct sampling of air emissions at the Lockheed-Martin B-1 Site VES. Bureau Veritas and Earth Tech personnel each collected an exhaust sample using an evacuated Summa canister; connected via a disposable Teflon® tube to the VES unit's sampling port.

During the sampling period, the exhaust flow rate was 907 standard cubic feet per minute (scfm). Only one stack analyzer was in operation this event monitoring volatile organic compound (VOC) concentration. The other stack analyzer was sent for repairs. The reading was 0.44 parts per million (ppmv). Laboratory results indicated a total VOC concentration of 0.019 ppmv, as described in the following section. Discrepancies between stack analyzers and laboratory results are not uncommon, since one is quantitative and the other is qualitative. In addition, the stack analyzers may detect additional VOC compounds that are not in the TO-14A analysis conducted by the laboratory. Direct readings of VOC emission rates in the field were within acceptable operating conditions for the VES. The 15-minute average VOC emission rate indicated at the time was 0.288 pounds per day (lbs/day), while the 24-hour average value was 0 lbs/day.

The sample collected by Bureau Veritas was submitted to TestAmerica Laboratories, Inc., Santa Ana, California, under chain of custody protocol for analysis by gas chromatography/mass spectrometry (GC/MS) in accordance with EPA Method TO-14A.

RESULTS OF LABORATORY ANALYSES

The results from the TO-14A analysis of the sample taken on August 28, 2009 indicated that five (5) compounds were present in concentrations at or above the detection limits. Following are a list of these compounds and the concentrations indicated by the analysis:

Compound	Concentration (ppmv) ⁽¹⁾
Carbon Disulfide	0.0062
Dichlorodifluoromethane	0.0051
Total Xylenes	0.0034
Tetrachloroethene (PCE)	0.0026
Trichloroethene (TCE)	0.0019

1 ppmv = parts per million by volume



The above compounds have all been detected in previous sampling events. Dichlorodifluoromethane, also known as Freon 12, was detected at levels comparable to past data. Carbon Disulfide last detected in October 2008 was below the reporting limit. Total Xylenes concentration just more than doubled the previous time it was detected in June of 2006. The number of detected compounds (five) remained the same as the sample collected on April 20, 2009. Overall, lab data is consistent with the historical trend.

Using the analytical data, an overall VOC emission rate of 0.007 lb/day was calculated. This value is comparable to the 24-hour average VOC reading (0 lb/day) provided by the in-line organic vapor monitoring system. In addition, this value is below the calculated VOC emission levels designated by the Conditional Use Permit (CUP) limit of 9.8 lb/day. These results, along with the previous calculated total VOC emissions for the unit, were plotted on Figure 1. Vinyl chloride was not detected in the sample taken. Therefore, its CUP limit of 0.14 pounds per day was not exceeded.

HEALTH RISK ASSESSMENT CALCULATIONS

In accordance with the CUP, the stack concentrations of each constituent and the exhaust flow rates were used to calculate the excess cancer risk resulting from operation of the VES. The first risk calculation was to determine the risk if the unit was operated for a lifetime period of 70 years, evaluating the risk to both workers and local residents for those chemicals specified in SCAQMD Rule 1401, as adopted at the time the unit was permitted. The second risk calculation was to determine the risk to both workers and local residents for the life of the project (the 8.5-year operating period), for all detected chemicals for which carcinogenic risk factors are available.

The resulting cancer risk calculations for both conditions indicated an acceptable Maximum Individual Cancer Risk (MICR) significantly less than one in one million. The results from these calculations, along with the MICR results from previous calculations for the unit, are presented on Figures 2 and 3, for 70-year and 8.5-year calculations, respectively.

CONCLUSIONS

Based on the results of the information gathered and samples taken on August 28, 2009, the following conclusions can be made:

- The number of compounds detected remained the same as the previous sampling event. All of the detected compounds have exceeded their reporting limits in the past. (See attached lab data for specific reporting limits).

Mr. Michael Forbes
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October 30, 2009



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- All measured emissions are within the permit conditions. Since vinyl chloride was not detected, its CUP limit of 0.14 pounds per day was not exceeded. Excess cancer risks (MICR) were less than one in one million for workers and local residents, using both 70-year lifetime and 8.5-year operating period risk calculations.

If you have any questions or require additional information regarding this status report, please contact one of the undersigned at 714.431.4100.

Prepared by:

Kevin Martin
Environmental Consultant
Environmental Services

Reviewed by:

Gustavo Valdivia, P.E. No. C57702
Manager, Engineering and Remediation
Environmental Services

KM/GV:dh

Attachments:

- Figure 1 - Daily VOC Emissions
- Figure 2 - Human Health Risk (70 Year Lifetime)
- Figure 3 - Human Health Risk (8.5 Year Operating Period)
- Laboratory Report

cc: Stacey Ebner, South Coast Air Quality Management District



FIGURES

FIGURE 1 - DAILY VOC EMISSIONS

LOCKHEED B-1 VES

Independent Monitoring Data

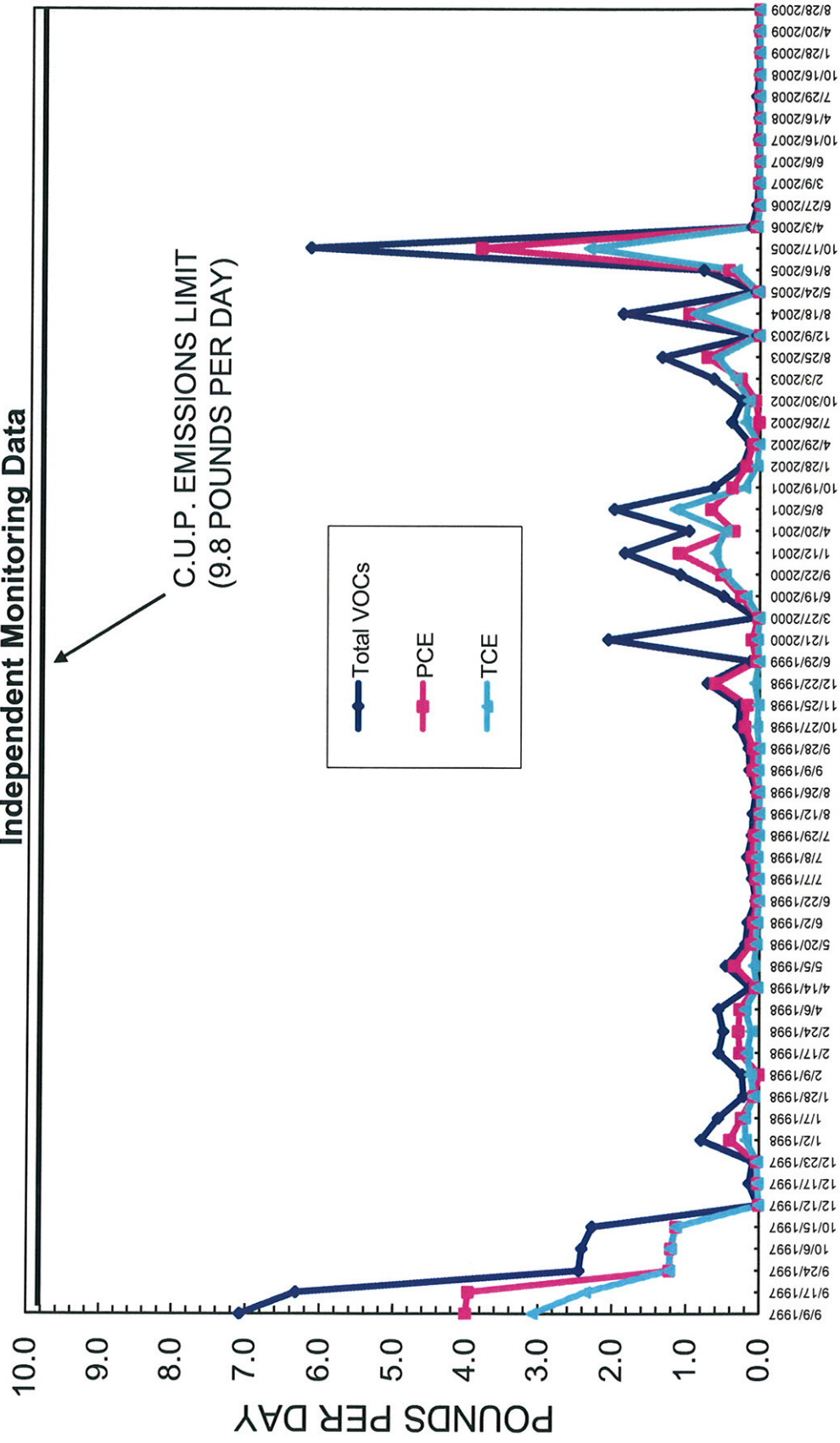
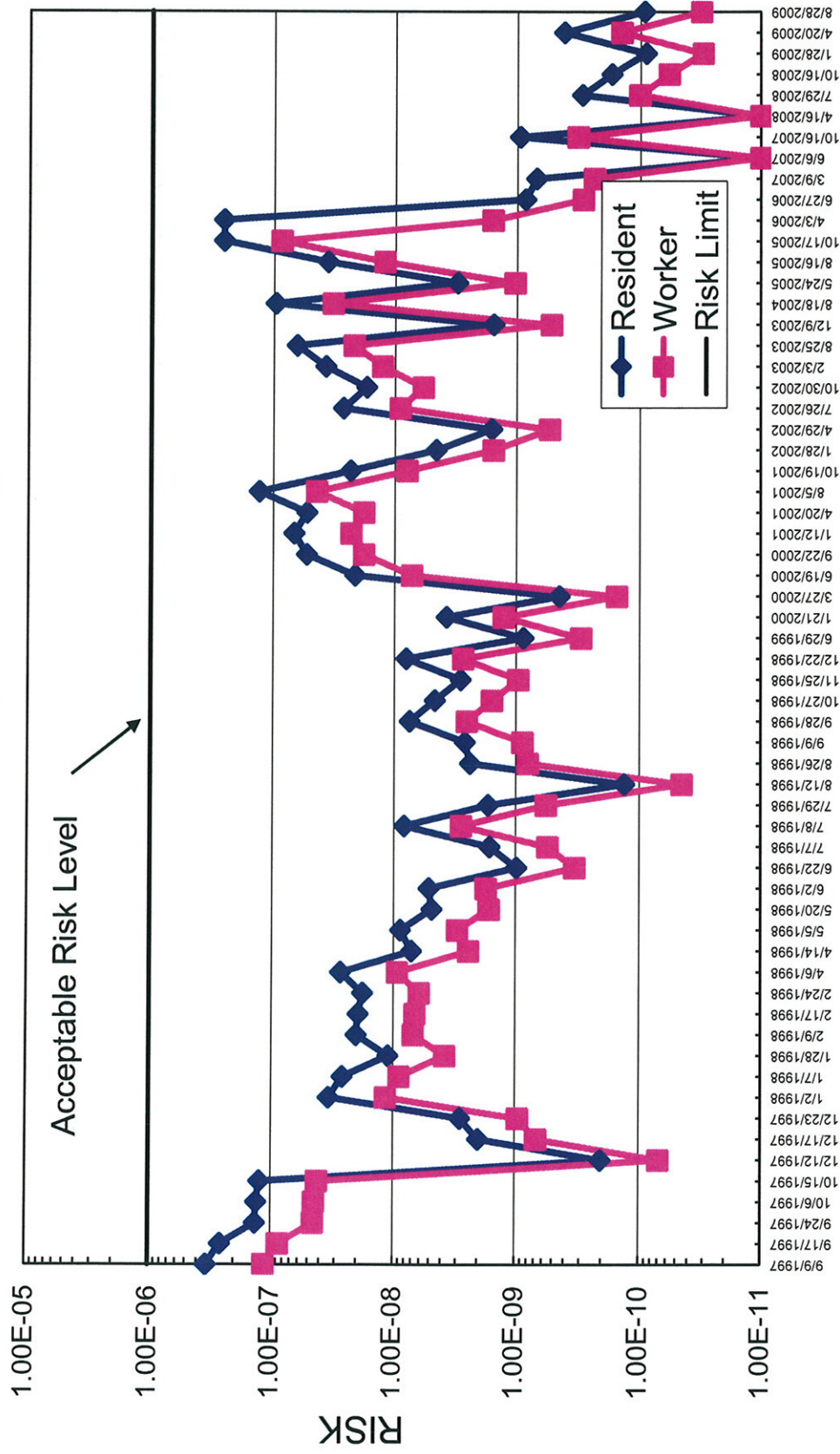
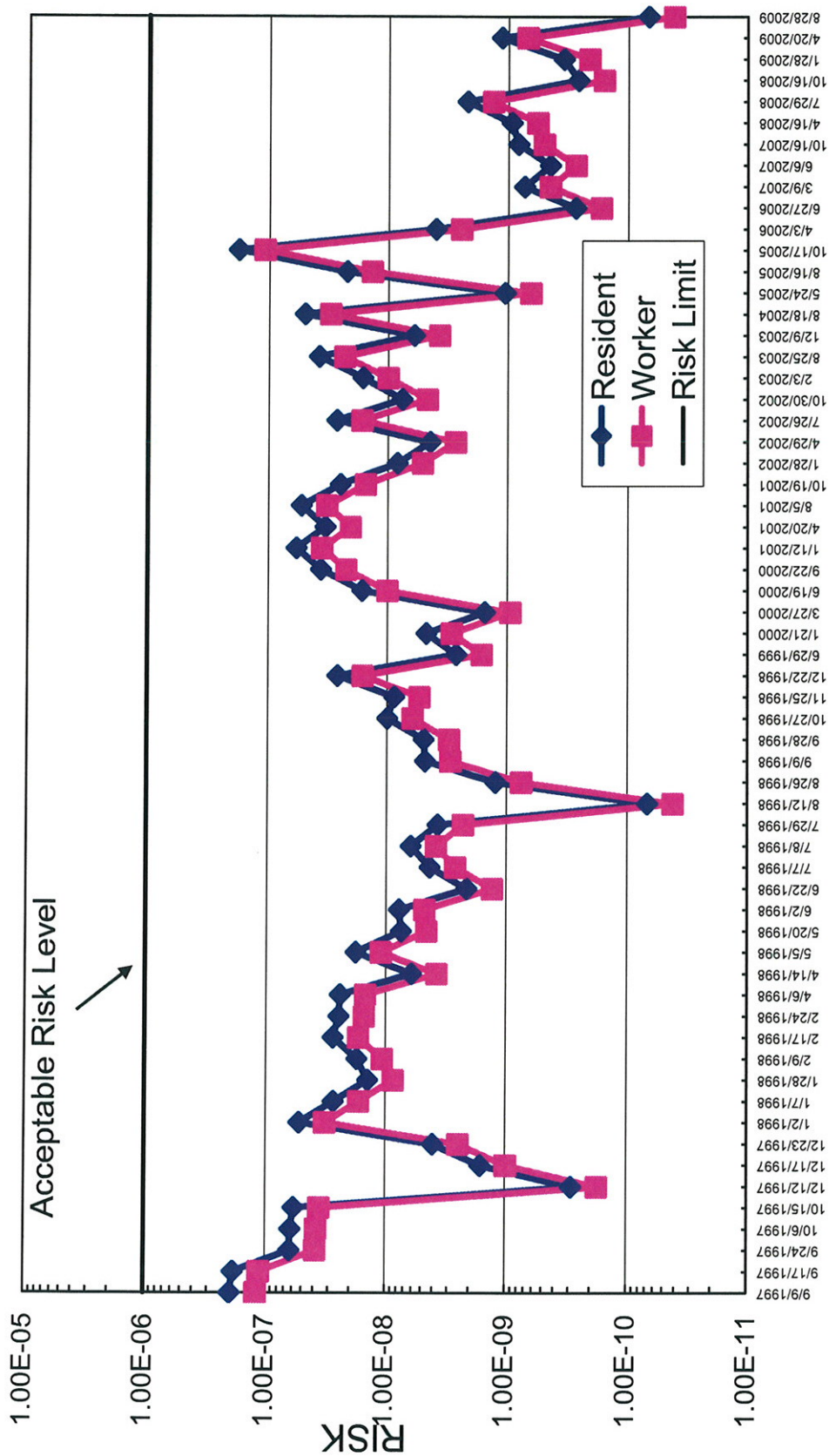


FIGURE 2 - HUMAN HEALTH RISK
LOCKHEED B-1 VES
SCAQMD RULE 1401 CHEMICALS
HYPOTHETICAL 70 YEAR LIFETIME



**FIGURE 3 - HUMAN HEALTH RISK
LOCKHEED B-1 VES
DURING 8.5 YEAR OPERATING PERIOD**





LABORATORY REPORT

September 10, 2009

LABORATORY REPORT

Client:

Bureau Veritas N.A. Inc Costa Mesa
1565 MacArthur Blvd
Costa Mesa, CA 92626
Attn: Gustavo Valdivia

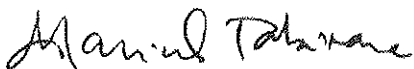
Work Order: LSH0181
Project Name: City of Burbank
Project Number: 25098-098191.01.001
Date Received: 08/31/09

TestAmerica Los Angeles certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the Corrective Action Report. NELAC Certification Number for TestAmerica Los Angeles is E87652. The test results listed within this Laboratory Report pertain only to the samples tested at TestAmerica Los Angeles, unless otherwise indicated. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 714-258-8610.

Approved By:



Marisol Tabirara
Project Manager

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

3585 Cadillac Avenue, Suite A Costa Mesa, CA 92626 * 714-258-8610 * Fax 714-258-0921

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Gustavo Valdivia

Work Order: LSH0181
Project: City of Burbank
Project Number: 25098-098191.01.001

Received: 08/31/09 14:20
Reported: 09/10/09 15:26

<u>SAMPLE IDENTIFICATION</u>	<u>LAB NUMBER</u>	<u>COLLECTION</u>	<u>MATRIX</u>	<u>CONTAINER TYPE</u>
B-1-VES-082809	LSH0181-01	08/28/09 09:50	Air	Passivated Canister

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Received: 08/31/09 14:20
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ANALYTICAL REPORT

Analyte	Result	Data			RL	Dilution	Date		Instrument	Analyst	QC
		Qualifiers	Units	MDL			Analyzed	Batch			
Sample ID: LSH0181-01 (B-1-VES-082809 - Air)							Sampled: 08/28/09 09:50				
EPA TO14A - Volatile Organic Compounds by GC/MS											
Acetone	ND		ppbv	2.5	10	1.0	09/09/09 01:52	MSA	AD	9109009	
Benzene	ND		ppbv	1.5	3.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Benzyl chloride	ND		ppbv	2.0	10	1.0	09/09/09 01:52	MSA	AD	9109009	
Bromodichloromethane	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Bromoform	ND		ppbv	0.50	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Bromomethane	ND		ppbv	2.0	4.0	1.0	09/09/09 01:52	MSA	AD	9109009	
2-Butanone (MEK)	ND		ppbv	2.0	10	1.0	09/09/09 01:52	MSA	AD	9109009	
Carbon disulfide	6.2		ppbv	2.0	10	1.0	09/09/09 01:52	MSA	AD	9109009	
Carbon tetrachloride	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Chlorobenzene	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Dibromochloromethane	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Chloroethane	ND		ppbv	1.5	4.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Chloroform	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Chloromethane	ND		ppbv	2.0	4.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,2-Dibromoethane (EDB)	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,2-Dichlorobenzene	ND		ppbv	0.90	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,3-Dichlorobenzene	ND		ppbv	0.80	4.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,4-Dichlorobenzene	ND		ppbv	1.0	4.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Dichlorodifluoromethane	5.1		ppbv	1.5	3.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,1-Dichloroethane	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,2-Dichloroethane	ND		ppbv	1.5	3.0	1.0	09/09/09 01:52	MSA	AD	9109009	
cis-1,2-Dichloroethene	ND		ppbv	0.80	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
trans-1,2-Dichloroethene	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,1-Dichloroethene	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,2-Dichloropropane	ND		ppbv	1.5	3.0	1.0	09/09/09 01:52	MSA	AD	9109009	
cis-1,3-Dichloropropene	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
trans-1,3-Dichloropropene	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Ethylbenzene	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
4-Ethyltoluene	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Hexachlorobutadiene	ND		ppbv	1.3	4.0	1.0	09/09/09 01:52	MSA	AD	9109009	
2-Hexanone	ND		ppbv	2.0	10	1.0	09/09/09 01:52	MSA	AD	9109009	
Methylene chloride	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
4-Methyl-2-pentanone (MIBK)	ND		ppbv	2.0	10	1.0	09/09/09 01:52	MSA	AD	9109009	
Styrene	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,1,2,2-Tetrachloroethane	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Tetrachloroethene	2.6		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Toluene	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,2,4-Trichlorobenzene	ND		ppbv	2.5	5.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,1,1-Trichloroethane	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
1,1,2-Trichloroethane	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	
Trichloroethene	1.9		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009	

Bureau Veritas N.A. Inc Costa Mesa
1565 MacArthur Blvd
Costa Mesa, CA 92626
Gustavo Valdivia

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Received: 08/31/09 14:20
Reported: 09/10/09 15:26

ANALYTICAL REPORT

Analyte	Result	Data		MDL	RL	Dilution	Date		QC	
		Qualifiers	Units				Analyzed	Instrument		Analyst
Sample ID: LSH0181-01 (B-1-VES-082809 - Air) - cont.							Sampled: 08/28/09 09:50			
EPA TO14A - Volatile Organic Compounds by GC/MS - cont.										
Trichlorofluoromethane	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009
1,2,4-Trimethylbenzene	ND		ppbv	1.3	3.0	1.0	09/09/09 01:52	MSA	AD	9109009
1,3,5-Trimethylbenzene	ND		ppbv	1.1	3.0	1.0	09/09/09 01:52	MSA	AD	9109009
Vinyl acetate	ND		ppbv	2.0	10	1.0	09/09/09 01:52	MSA	AD	9109009
Vinyl chloride	ND		ppbv	2.0	4.0	1.0	09/09/09 01:52	MSA	AD	9109009
Xylenes, total	3.4		ppbv	1.0	2.0	1.0	09/09/09 01:52	MSA	AD	9109009

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 9109009-BLK1 (Blank - Air)										
EPA TO14A - Volatile Organic Compounds by GC/MS										
Acetone	ND		ppbv	2.5	10	1.00	09/08/09 18:26	MSA	AA	9109009
Benzene	ND		ppbv	1.5	3.0	1.00	09/08/09 18:26	MSA	AA	9109009
Benzyl chloride	ND		ppbv	2.0	10	1.00	09/08/09 18:26	MSA	AA	9109009
Bromodichloromethane	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Bromoform	ND		ppbv	0.50	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Bromomethane	ND		ppbv	2.0	4.0	1.00	09/08/09 18:26	MSA	AA	9109009
2-Butanone (MEK)	ND		ppbv	2.0	10	1.00	09/08/09 18:26	MSA	AA	9109009
Carbon disulfide	ND		ppbv	2.0	10	1.00	09/08/09 18:26	MSA	AA	9109009
Carbon tetrachloride	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Chlorobenzene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Dibromochloromethane	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Chloroethane	ND		ppbv	1.5	4.0	1.00	09/08/09 18:26	MSA	AA	9109009
Chloroform	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Chloromethane	ND		ppbv	2.0	4.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,2-Dibromoethane (EDB)	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,2-Dichlorobenzene	ND		ppbv	0.90	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,3-Dichlorobenzene	ND		ppbv	0.80	4.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,4-Dichlorobenzene	ND		ppbv	1.0	4.0	1.00	09/08/09 18:26	MSA	AA	9109009
Dichlorodifluoromethane	ND		ppbv	1.5	3.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,1-Dichloroethane	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,2-Dichloroethane	ND		ppbv	1.5	3.0	1.00	09/08/09 18:26	MSA	AA	9109009
cis-1,2-Dichloroethene	ND		ppbv	0.80	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
trans-1,2-Dichloroethene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,1-Dichloroethene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,2-Dichloropropane	ND		ppbv	1.5	3.0	1.00	09/08/09 18:26	MSA	AA	9109009
cis-1,3-Dichloropropene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
trans-1,3-Dichloropropene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Ethylbenzene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
4-Ethyltoluene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Hexachlorobutadiene	ND		ppbv	1.3	4.0	1.00	09/08/09 18:26	MSA	AA	9109009
2-Hexanone	ND		ppbv	2.0	10	1.00	09/08/09 18:26	MSA	AA	9109009
Methylene chloride	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
4-Methyl-2-pentanone (MIBK)	ND		ppbv	2.0	10	1.00	09/08/09 18:26	MSA	AA	9109009
Styrene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,1,2,2-Tetrachloroethane	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Tetrachloroethene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Toluene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,2,4-Trichlorobenzene	ND		ppbv	2.5	5.0	1.00	09/08/09 18:26	MSA	AA	9109009

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PROJECT QUALITY CONTROL DATA

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 9109009-BLK1 (Blank - Air) - cont.										
EPA TO14A - Volatile Organic Compounds by GC/MS										
1,1,1-Trichloroethane	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,1,2-Trichloroethane	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Trichloroethene	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
Trichlorofluoromethane	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,2,4-Trimethylbenzene	ND		ppbv	1.3	3.0	1.00	09/08/09 18:26	MSA	AA	9109009
1,3,5-Trimethylbenzene	ND		ppbv	1.1	3.0	1.00	09/08/09 18:26	MSA	AA	9109009
Vinyl acetate	ND		ppbv	2.0	10	1.00	09/08/09 18:26	MSA	AA	9109009
Vinyl chloride	ND		ppbv	2.0	4.0	1.00	09/08/09 18:26	MSA	AA	9109009
Xylenes, total	ND		ppbv	1.0	2.0	1.00	09/08/09 18:26	MSA	AA	9109009

Bureau Veritas N.A. Inc Costa Mesa
1565 MacArthur Blvd
Costa Mesa, CA 92626
Gustavo Valdivia

Work Order: LSH0181
Project: City of Burbank
Project Number: 25098-098191.01.001

Received: 08/31/09 14:20
Reported: 09/10/09 15:26

PROJECT QUALITY CONTROL DATA

LCS

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	Instrument	Date Analyzed	QC Batch
Sample ID: 9109009-BS1 (LCS - Air)											
EPA TO14A - Volatile Organic Compounds by GC/MS											
Benzene	47.7		ppbv	3.0	1.00	50.0	95%	70 - 115	MSA	09/08/09 15:58	9109009
Bromodichloromethane	44.8		ppbv	2.0	1.00	50.0	90%	70 - 125	MSA	09/08/09 15:58	9109009
Bromomethane	41.9		ppbv	4.0	1.00	50.0	84%	50 - 125	MSA	09/08/09 15:58	9109009
2-Butanone (MEK)	53.4		ppbv	10	1.00	55.0	97%	70 - 130	MSA	09/08/09 15:58	9109009
Carbon disulfide	53.1		ppbv	10	1.00	50.0	106%	70 - 130	MSA	09/08/09 15:58	9109009
Chlorobenzene	47.5		ppbv	2.0	1.00	52.5	90%	70 - 110	MSA	09/08/09 15:58	9109009
Chloroform	42.4		ppbv	2.0	1.00	50.0	85%	70 - 130	MSA	09/08/09 15:58	9109009
1,4-Dichlorobenzene	37.2		ppbv	4.0	1.00	50.0	74%	55 - 120	MSA	09/08/09 15:58	9109009
Dichlorodifluoromethane	39.3		ppbv	3.0	1.00	50.0	79%	20 - 150	MSA	09/08/09 15:58	9109009
cis-1,2-Dichloroethene	45.3		ppbv	2.0	1.00	53.5	85%	70 - 130	MSA	09/08/09 15:58	9109009
Tetrachloroethene	41.9		ppbv	2.0	1.00	52.5	80%	70 - 110	MSA	09/08/09 15:58	9109009
1,1,2-Trichloroethane	44.4		ppbv	2.0	1.00	50.0	89%	70 - 110	MSA	09/08/09 15:58	9109009
Trichloroethene	42.5		ppbv	2.0	1.00	50.0	85%	70 - 115	MSA	09/08/09 15:58	9109009
1,2,4-Trimethylbenzene	43.3		ppbv	3.0	1.00	50.0	87%	50 - 145	MSA	09/08/09 15:58	9109009
Vinyl chloride	45.8		ppbv	4.0	1.00	50.0	92%	70 - 115	MSA	09/08/09 15:58	9109009
Xylenes, total	145		ppbv	2.0	1.00	150	96%	70 - 130	MSA	09/08/09 15:58	9109009

Bureau Veritas N.A. Inc Costa Mesa
1565 MacArthur Blvd
Costa Mesa, CA 92626
Gustavo Valdivia

Work Order: LSH0181
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Received: 08/31/09 14:20
Reported: 09/10/09 15:26

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Result	Data Qualifiers	Units	RL	Dilution	Spike Conc	% Rec	Target Range	RPD	Limit	Date Analyzed	QC Batch
Sample ID: 9109009-BSD1 (LCS Dup - Air)												
EPA TO14A - Volatile Organic Compounds by GC/MS												
Benzene	49.5		ppbv	3.0	1.00	50.0	99%	70 - 115	4	25	09/08/09 16:30	9109009
Bromodichloromethane	46.0		ppbv	2.0	1.00	50.0	92%	70 - 125	3	25	09/08/09 16:30	9109009
Bromomethane	41.9		ppbv	4.0	1.00	50.0	84%	50 - 125	0.2	25	09/08/09 16:30	9109009
2-Butanone (MEK)	51.2		ppbv	10	1.00	55.0	93%	70 - 130	4	25	09/08/09 16:30	9109009
Carbon disulfide	50.6		ppbv	10	1.00	50.0	101%	70 - 130	5	25	09/08/09 16:30	9109009
Chlorobenzene	46.4		ppbv	2.0	1.00	52.5	88%	70 - 110	2	25	09/08/09 16:30	9109009
Chloroform	40.1		ppbv	2.0	1.00	50.0	80%	70 - 130	5	25	09/08/09 16:30	9109009
1,4-Dichlorobenzene	40.0		ppbv	4.0	1.00	50.0	80%	55 - 120	7	25	09/08/09 16:30	9109009
Dichlorodifluoromethane	38.5		ppbv	3.0	1.00	50.0	77%	20 - 150	2	25	09/08/09 16:30	9109009
cis-1,2-Dichloroethene	43.3		ppbv	2.0	1.00	53.5	81%	70 - 130	5	25	09/08/09 16:30	9109009
Tetrachloroethene	41.1		ppbv	2.0	1.00	52.5	78%	70 - 110	2	25	09/08/09 16:30	9109009
1,1,2-Trichloroethane	45.2		ppbv	2.0	1.00	50.0	90%	70 - 110	2	25	09/08/09 16:30	9109009
Trichloroethene	44.2		ppbv	2.0	1.00	50.0	88%	70 - 115	4	25	09/08/09 16:30	9109009
1,2,4-Trimethylbenzene	44.2		ppbv	3.0	1.00	50.0	88%	50 - 145	2	25	09/08/09 16:30	9109009
Vinyl chloride	45.2		ppbv	4.0	1.00	50.0	90%	70 - 115	1	25	09/08/09 16:30	9109009
Xylenes, total	145		ppbv	2.0	1.00	150	96%	70 - 130	0.06	25	09/08/09 16:30	9109009



THE LEADER IN ENVIRONMENTAL TESTING

3585 Cadillac Avenue, Suite A Costa Mesa, CA 92626 * 714-258-8610 * Fax 714-258-0921

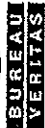
Bureau Veritas N.A. Inc Costa Mesa
1565 MacArthur Blvd
Costa Mesa, CA 92626
Gustavo Valdivia

Work Order: LSH0181
Project: City of Burbank
Project Number: 25098-098191.01.001

Received: 08/31/09 14:20
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DATA QUALIFIERS AND DEFINITIONS

ND Not detected at the reporting limit (or method detection limit if shown)



1565 MacArthur Blvd., Costa Mesa, CA 92626
Tel: 714.431.4100 Fax: 714.825.0685

1565 MacArthur Blvd., Costa Mesa, CA 92626
Tel: 714.431.4100 Fax: 714.825.0685

Clayton Group Services, Inc.
A Bureau Veritas Company

57018

Turn Around Time (TAT)	
Rush <input type="checkbox"/>	Normal <input checked="" type="checkbox"/>
Rush TAT: _____	
Results Delivery:	
Phone <input type="checkbox"/>	Fax <input type="checkbox"/>
Hardcopy <input checked="" type="checkbox"/>	EDD <input checked="" type="checkbox"/>

PAGE	OF	1
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[illegible]

CHAIN OF CUSTODY	Collected by: (Print)	Karin Q Martin		Collector's Signature:	Karin Q Martin		
	Relinquished by:	Karin Q Martin	Date/Time 8-31-09	11:40	Date/Time 8-31-09	11:40	
	Relinquished by:	Karin Q Martin	Date/Time 8-31-09	1440	Date/Time 8-31-09	11:45:30	
	Method of Shipment:			Received at Lab. by:		Date/Time	1
	Sample Condition Upon Receipt: (Circle):	Acceptable	Other (Explain)				

Distribution:

White = Project Manager

Yellow = Laboratory

Pink = Client

LSH0181
Gold = Project File

CANISTER FIELD DATA RECORD

CLIENT: Bureau Veritas
 CANISTER SERIAL #: 93266
 DATE CLEANED: 081209E
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: _____
 Duration of comp.: _____ Hrs. / mins.
 Flow setting: _____ ml/min
 Initials: _____

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/26/09	(B)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg <u>PSIA</u> (circle unit used))	13.82	9/1/09	X
FINAL PRESSURE (PSIA)	24.44	9/1/09	X

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
	15 Min.	316 - 333
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER QC CERTIFICATION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certification Type: TO-15 M2

Date Cleaned/Batch B081209E

Date of QC 8-13-09

Data File Number M1708131 (MSB)

CANISTER ID NUMBERS

* 12877

12402

12464

DLO842

A-239

0155

9115 B

✓ 93266

A-295

9302 BB

93158

93050

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

AD
Reviewed By:

8/13/09
Date:

N:\CO\DOCS\TestAmerica\DOCS\Can QC Cert 20070712.doc

TestAmerica Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL
 Data file : \\LAPC046\MSB_CC\chem\MSB.i\090813.B\MB08136.D
 Lab Smp Id: BLANK Client Smp ID: 12877
 Inj Date : 13-AUG-2009 21:09
 Operator : AD Inst ID: MSB.i
 Smp Info : BLANK,12877,,SCREEN BLANK
 Misc Info : 1,1,500,500,3,,BLANK,BLANK.SUB,0,
 Comment :
 Method : \\LAPC046\MSB_CC\chem\msb.i\090813.B\TO14A.m
 Meth Date : 13-Aug-2009 17:17 donga Quant Type: ISTD
 Cal Date : 30-JUN-2009 15:41 Cal File: IC06308.D
 Als bottle: 1 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: BLANK.SUB
 Subtraction File: \\LAPC046\MSB_CC
 Target Version: 4.04
 Processing Host: LAPC046

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
* 57 Bromochloromethane		49	8.507	8.516	(1.000)	812108	50.0000	
\$ 65 1,2-Dichloroethane-d4		65	9.527	9.544	(0.924)	891061	52.8681	52.87
* 73 1,4-Difluorobenzene		114	10.312	10.329	(1.000)	2769595	50.0000	
\$ 88 Toluene-d8		100	12.919	12.919	(1.253)	1292391	48.5706	48.57
* 101 Chlorobenzene-d5		117	15.572	15.572	(1.000)	2186629	50.0000	
\$ 116 4-Bromofluorobenzene		95	17.819	17.818	(1.144)	2256786	51.0752	51.08

Data File: \\LAP0046\MSB_CC\chem\MSB.i\090813.B\H808136.D

Date: 13-AUG-2009 21:09

Client ID: 12877

Sample Info: BLANK, 12877, SCREEN BLANK

Column Phase: J84 DB-624

Instrument: MSB.i

Operator: AD

Column diameter: 0.53

Page 7

\\LAP0046\MSB_CC\chem\MSB.i\090813.B\H808136.D

